


Division of Utility and Railroad Safety

The Impact of Safety Culture On Pipeline Safety Management Systems

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What can be said or done that
you haven't heard or seen?

A decorative graphic at the top of the slide consisting of several overlapping, wavy, horizontal bands in various shades of blue, creating a sense of movement or a stylized horizon.

It's not just what we say, but
how our words and actions
are perceived by others.

We all have turning points that affected our view of safety culture...



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Compliance-based Approach to Safety

- Reactive
- Driven by Rules
- Catching people doing it wrong/Enforcement
- We do what we are told, what we have to
- Driven/managed by safety staff/department
- Perception is mainly negative
- It is focused on conditions, not behavior

The Minimum Requirements



The Minimum Requirements





Improving safety takes

MORE

than just compliance with
minimum requirements.

2010 Cleburne Texas Explosion

1 Fatality, 6 Injured



Article 5 Years Later


...I can accept acts of God; to me, this traces back to lack of leadership and responsibility. God doesn't have anything to do with that...

And then there is the inability to keep track of all the pipelines under the ground we're walking on. That photo at the top is a natural gas explosion caused by a worker and a digging machine that didn't know where the pipeline is/was...

We are a nation steeped in instant gratification. We are dedicated to enjoying our money now, enduring the consequences later...



Moving from Compliance to Safety Culture



Change the way we measure safety
from
Injuries, death, violations
to
Presence of Safety in
Our Culture

Behavior-based Approach to Safety

- Driven by self values/accountability
- We do what is right, no matter what
- Proactive
- Driven by all for safety
- Positive and engaging

Safety Culture is a new thing, right?

The term 'safety culture' was first used in INSAG's (1988) 'Summary Report on the Post-Accident Review Meeting on the Chernobyl Accident' where safety culture was described as:


"That assembly of characteristics and attitudes in organizations and individuals which establishes that, as an overriding priority, nuclear plant safety issues receive the attention warranted by their significance."

Culture

It's how things are done
when nobody is watching.

Safety Culture

It's how things are done
in a way that ensures
safety when nobody is
watching.



Actions and inactions of individuals at
all levels of an operator's organization
define the safety culture of that
operator.







Safety Culture and PSMS

“It is wrong to suppose that if you can’t measure it, you can’t manage it – a costly myth.”

“A bad system will beat a good person every time.”

W. Edwards Deming

Safety Culture's Impact on PSMS

- * The impact of safety culture on PSMS is critical
- * A strong safety culture can exist without a formal PSMS
- * The success of PSMS depends on the strength of the safety culture throughout the business hierarchy!





PSMS





Strong Safety Culture

With

PSMS

Thank You!

